

# Nuclear Material Stabilization and Disposition (RL-0011)

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*241-Z D-8 Cell Cleanout*



*241-Z Cell Cleanout*

## Overview

This section addresses work in Project Baseline Summary RL-0011, *Nuclear Material Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of January 2006.

## Notable Accomplishments

### Disposition the Plutonium Finishing Plant (PFP) Facility

- Shipped 20 solution containers for a total of 346 through January 26, 2006
- 232-Z scrubber cell entries were made completing external pipe pieces removed allowing contamination inside enclosure to be fixed and second blower electric motor was disconnected
- Electrical isolation was completed in support of the third increment of glove box decontamination/removal
- Fifty percent of process piping has been removed from both the 241-Z D-8 cell and D-5 cell
- Completed conceptual design for the Interim Secure Storage Facility (ISSF)
- Completed the shielding analysis, preliminary fire hazards analysis, thermal analysis of the storage array, and thermal analysis of 3013 can/carrier which quantifies HVAC requirements for ISSF
- Initiated Advanced Conceptual Design for the ISSF

## FY 2006 Funds vs. Spend Forecast (\$M)

	Projected FY 2006 Funding	FY 2006 Fiscal Year Spend Forecast	Variance
Nuclear Materials Stabilization & Disposition	\$ 137.2	\$ 138.1	\$ -0.9

## FY 2006 Schedule/Cost Performance (\$M)

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Nuclear Materials Stabilization & Disposition	\$35.8	\$32.7	\$36.8	-\$3.1	-8.7%	-\$4.1	-12.6%	\$116.3

Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

## FY 2006 Schedule/Cost Performance (\$M), continued

**Schedule Performance: (-\$3.1M/-8.7%):** Primary contributors to the unfavorable schedule performance include:

- Behind schedule on 241-Z modifications for turnover due to delayed start on drills, team building (due to bump and roll), and redirection of staff to support glove box cleanup.
- 234-5Z and T Plant size reduction work scope planned in FY 2006 but performed in FY 2005, apportioned support activities behind due to delayed Decontamination and Decommissioning (D&D), partially offset by recovery of FY 2005 lay-up scope.
- ISSF detailed design placed on hold pending receipt of project and engineering design funding.

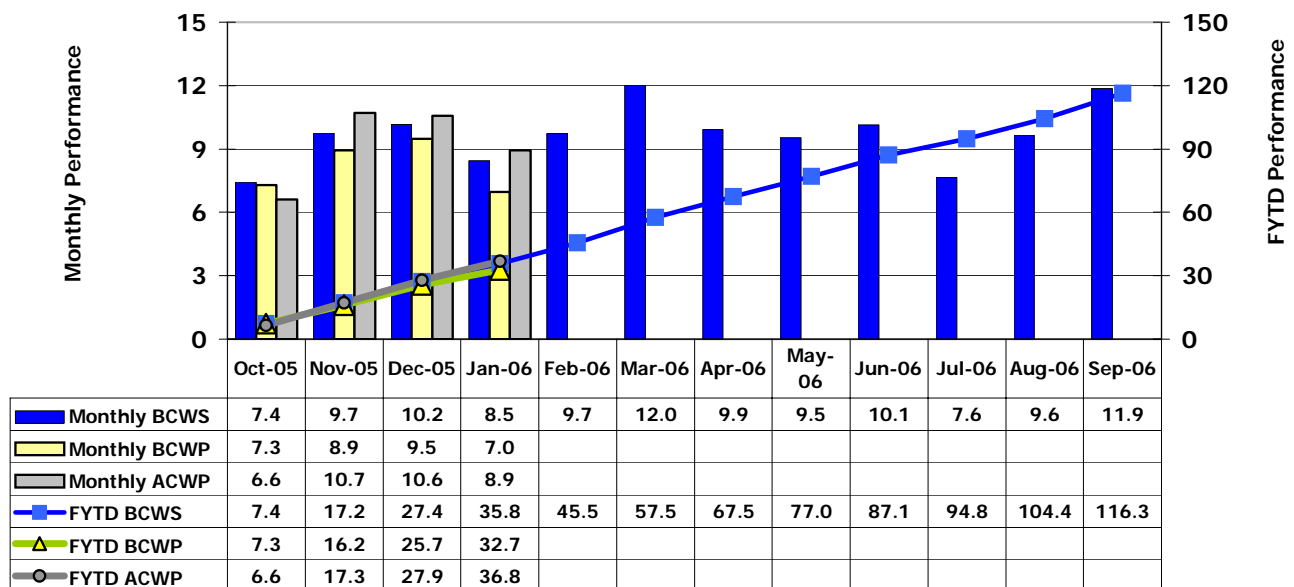
Negative schedule variance partially offset by:

- Recovery of FY 2005 carryover scope for fuel moves in support of material access area elimination.

**Cost Performance: (-\$4.1M/-12.6%):** Primary contributors to the unfavorable cost variance include:

- Increased nuclear safety support required: efforts to reduce the preventive maintenance backlog and address high priority maintenance items.
- Apportioned D&D support activities continue at a fairly consistent level versus behind schedule status of D&D activities.
- Time-phasing of assessments.

### Performance Analysis FYTD and Monthly (\$M)



## Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comments
TRP-05-501 TRP-05-506	Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms	TPA PI	6/30/05	12/13/04		Complete
TRP-05-504	Complete Pu Legacy Holdup Removal	PI	9/30/05	6/30/05		Complete
TRP-05-505	Transition 10 Facilities to Slab-on-Grade	PI	9/30/05	5/22/05		Complete
TRP-06-500	Decontaminate Glovebox HA-20MB	TPA	3/31/06	10/28/04		Complete
TRP-06-501	Complete Pu Legacy Holdup Removal	TPA	9/30/06	6/30/05		Complete
TRP-06-507 TRP-06-502	Transition 232-Z Bldg Incinerator to Slab-on-Grade	TPA	9/30/06		8/30/06	Ahead of Schedule
TRP-06-509	Disposition Miscellaneous PFP Nuclear Materials	PI	9/30/06		9/30/06	On Schedule
TRP-06-515	Complete 242-Z Initial Entry & Characterization	PI	9/30/06	10/5/05		Complete
TRP-06-519	Complete Conceptual Design for Compliant Storage Facility	PI	9/30/06	1/26/06		Complete
TRP-06-520	Submit Preliminary Safety Basis Documentation (PDSA) on ISSF	PI	9/30/06		TBD	
TRP-06-521	Submit SEP Project NEPA Documentation	PI	9/30/06		2/15/06	Ahead of Schedule
TRP-06-522	Complete Design Sufficient to Initiate Construction MODS of ISSF	PI	9/30/06		TBD	
TRP-06-524	Complete Cell Preparation Phase for Each of Five (5) Cells	PI	9/30/06		TBD	
TRP-06-525	Complete Tank Removal Phase for Each of Five (5) Tanks	PI	9/30/06		TBD	
TRP-06-526	Complete Formal Turnover of the Facility for Construction	PI	9/30/06		TBD	
TRP-06-527	Complete Demolition of Five DBT-Related Ancillary Facilities	PI	9/30/06		9/30/06	On Schedule